



#4

SEQUENCE LISTING

<110> Petrini, John H.J.
Morgan, William Franklin
Maser, Richard Scott
Carney, James Patrick

<120> DNA Encoding A DNA Repair Protein

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<141> 1998-04-27

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<212> PRT

<213> Homo sapiens

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Ile	Leu	Ile	Glu	Asn	Asp	Gln	Ser	Ile	Ser	Arg	Asn	His	Ala	Val	Leu
			35					40					45		
Thr	Ala	Asn	Phe	Ser	Val	Thr	Asn	Leu	Ser	Gln	Thr	Asp	Glu	Ile	Pro
			50					55					60		
Val	Leu	Thr	Leu	Lys	Asp	Asn	Ser	Lys	Tyr	Gly	Thr	Phe	Val	Asn	Glu
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Glu	Lys	Met	Gln	Asn	Gly	Phe	Ser	Arg	Thr	Leu	Lys	Ser	Gly	Asp	Gly

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Leu Val Ala Cys Ser Ser Cys Leu Asp Val Ser Gly Lys Thr Ala Leu					
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Asn Gln Ala Ile Leu Gln Leu Gly Gly Phe Thr Val Asn Asn Trp Thr					
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Glu Glu Cys Thr His Leu Val Met Val Ser Val Lys Val Thr Ile Lys					
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Thr Ile Cys Ala Leu Ile Cys Gly Arg Pro Ile Val Lys Pro Glu Tyr					
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Phe Thr Glu Phe Leu Lys Ala Val Gln Ser Lys Lys Gln Pro Pro Gln					
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Ile Glu Ser Phe Tyr Pro Pro Leu Asp Glu Pro Ser Ile Gly Ser Lys					
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Asn Val Asp Leu Ser Gly Arg Gln Glu Arg Lys Gln Ile Phe Lys Gly					
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Lys Thr Phe Ile Phe Leu Asn Ala Lys Gln His Lys Lys Leu Ser Ser					
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Glu Glu Glu His Asn Phe Phe Leu Ala Pro Gly Thr Cys Val Val Asp					
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Thr Gly Ile Thr Asn Ser Gln Thr Leu Ile Pro Asp Cys Gln Lys Lys					
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Trp Ile Gln Ser Ile Met Asp Met Leu Gln Arg Gln Gly Leu Arg Pro					
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Ile Pro Glu Ala Glu Ile Gly Leu Ala Val Ile Phe Met Thr Thr Lys					
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Asn Tyr Cys Asp Pro Gln Gly His Pro Ser Thr Gly Leu Lys Thr Thr					
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Thr Pro Gly Pro Ser Leu Ser Gln Gly Val Ser Val Asp Glu Lys Leu					
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Met Pro Ser Ala Pro Val Asn Thr Thr Thr Tyr Val Ala Asp Thr Glu					
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Ser Glu Gln Ala Asp Thr Trp Asp Leu Ser Glu Arg Pro Lys Glu Ile					
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Lys Val Ser Lys Met Glu Gln Lys Phe Arg Met Leu Ser Gln Asp Ala					
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 Pro Thr Lys Leu Pro Ser Ile Asn Lys Ser Lys Asp Arg Ala Ser Gln
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 Pro Val Asp Thr Asn Ser Asp Asn Asn Leu Phe Thr Asp Thr Asp Leu
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 Leu Arg Ser Asn Lys Lys Arg Glu Met Asp Asp Val Ala Ile Glu Asp
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 Pro Arg Met Asp Ile Glu Thr Asn Asp Thr Phe Ser Asp Glu Ala Val
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 625 630 635 640
 Asp Lys Leu Gln Asp Asp Ser Glu Met Leu Pro Lys Lys Leu Leu Leu
 645 650 655
 Thr Glu Phe Arg Ser Leu Val Ile Lys Asn Ser Thr Ser Arg Asn Pro
 660 665 670
 Ser Gly Ile Asn Asp Asp Tyr Gly Gln Leu Lys Asn Phe Lys Lys Phe
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 Lys Lys Val Thr Tyr Pro Gly Ala Gly Lys Leu Pro His Ile Ile Gly
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 Gly Ser Asp Leu Ile Ala His His Ala Arg Lys Asn Thr Glu Leu Glu

705 710 715 720
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 35 40 45
 Lys Tyr Gly Thr Phe Val Asn Glu Glu Lys Met Gln Asn Gly Phe Ser
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 Ser Ser Asp Leu Lys His Ser Ser Leu Cys Leu Val Asn Lys Gly Lys
 35 40 45
 Leu Thr Ser Leu Asn Lys Lys Phe Met Lys Val Gly Glu Thr Phe Thr
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 35 40 45
 Glu Asn Glu Val Asp Phe Ile Leu Leu Gly Gly Asp Leu Phe His Glu
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 Asn Lys Pro Ser Arg Lys Thr Leu His Thr Cys Leu Glu Leu Leu Arg
 65 70 75 80
 Lys Tyr Cys Met Gly Asp Arg Pro Val Gln Phe Glu Ile Leu Ser Asp
 85 90 95

Gln Ser Val Asn Phe Gly Phe Ser Lys Phe Pro Trp Val Asn Tyr Gln			
100	105	110	
Asp Gly Asn Leu Asn Ile Ser Ile Pro Val Phe Ser Ile His Gly Asn			
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His Asp Asp Pro Thr Gly Ala Asp Ala Leu Cys Ala Leu Asp Ile Leu			
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Ser Cys Ala Gly Phe Val Asn His Phe Gly Arg Ser Met Ser Val Glu			
145	150	155	160
Lys Ile Asp Ile Ser Pro Val Leu Leu Gln Lys Gly Ser Thr Lys Ile			
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Ala Leu Tyr Gly Leu Gly Ser Ile Pro Asp Glu Arg Leu Tyr Arg Met			
180	185	190	
Phe Val Asn Lys Lys Val Thr Met Leu Arg Pro Lys Glu Asp Glu Asn			
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Ser Trp Phe Asn Leu Phe Val Ile His Gln Asn Arg Ser Lys His Gly			
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Ser Thr Asn Phe Ile Pro Glu Gln Phe Leu Asp Asp Phe Ile Asp Leu			
225	230	235	240
Val Ile Trp Gly His Glu His Glu Cys Lys Ile Ala Pro Thr Lys Asn			
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Glu Gln Gln Leu Phe Tyr Ile Ser Gln Pro Gly Ser Ser Val Val Thr			
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Ser Leu Ser Pro Gly Glu Ala Val Lys Lys His Val Gly Leu Leu Arg			
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Ile Lys Gly Arg Lys Met Asn Met His Lys Ile Pro Leu His Thr Val			
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Arg Gln Phe Phe Met Glu Asp Ile Val Leu Ala Asn His Pro Asp Ile			
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Val Lys Gln Tyr Phe Gln Thr Ala Glu Lys Asn Val Gln Leu Ser Leu					
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Leu Thr Glu Arg Gly Met Gly Glu Ala Val Gln Glu Phe Val Asp Lys					
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<212> DNA

<213> Homo sapiens

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<400> 8

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			20					25					30		
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Glu	Asn	Glu	Val	Asp	Phe	Ile	Leu	Leu	Gly	Gly	Asp	Leu	Phe	His	Glu
	50					55					60				
Asn	Lys	Pro	Ser	Arg	Lys	Thr	Leu	His	Thr	Cys	Leu	Glu	Leu	Leu	Arg
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Ser	Cys	Ala	Gly	Phe	Val	Asn	His	Phe	Gly	Arg	Ser	Met	Ser	Val	Glu
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Lys	Ile	Asp	Ile	Ser	Pro	Val	Leu	Leu	Gln	Lys	Gly	Ser	Thr	Lys	Ile
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Ala	Leu	Tyr	Gly	Leu	Gly	Ser	Ile	Pro	Asp	Glu	Arg	Leu	Tyr	Arg	Met
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Ser	Trp	Phe	Asn	Leu	Phe	Val	Ile	His	Gln	Asn	Arg	Ser	Lys	His	Gly
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Val	Ile	Trp	Gly	His	Glu	His	Glu	Cys	Lys	Ile	Ala	Pro	Thr	Lys	Asn
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 Gly Arg Ala Phe Lys Ser Thr Arg Gln Gln Pro Ser Arg Asn Val Thr
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 Glu Asp Ile Phe Pro Thr Thr Ser Lys Thr Asp Gln Arg Trp Ser Ser
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